

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ  
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ  
КАФЕДРА ІНОЗЕМНИХ МОВ  
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР**

**МАТЕРІАЛИ  
VIII МІЖВУЗІВСЬКОЇ НАУКОВО-ПРАКТИЧНОЇ  
КОНФЕРЕНЦІЇ  
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО ЦЕНТРУ  
КАФЕДРИ ІНОЗЕМНИХ МОВ**

**“TO LIVE IN A SAFER WORLD”**

**(Суми, 28 березня 2014 року)**

The eighth scientific practical student`s, postgraduate`s and teacher`s  
LSNC conference

## TELEMEDICINE IN UKRAINE

A.O. Yermolina – Sumy State University, group LS – 301

G.S. Ilyina – E L Adviser

Telemedicine - a modern informatization trend of medicine that involves the use of modern information and communication technologies for remote diagnosis and treatment, assistance in emergency situations and training of medical staff.

Telemedicine is one of the application areas of medical science and it's developing is very fast. The main goal of telemedicine is to create conditions under which the assistance of highly qualified medical professionals will be available not only to residents of large cities, but also to those patients who live far from specialized medical centers and are unable to get an advice of a doctor. This issue is extremely important for Ukraine as urgent medical advice is often vital.

Telemedicine becomes important in a state of emergency related to natural and man-made disasters. Remote consultation will allow objectively assess the situation and take appropriate decisions.

Modern digital telemedicine systems can transmit images of the patient to the doctor across the globe, with virtually no loss of quality. According to the experts, the purely technical aspect of this is not so difficult.

In Ukraine telemedicine was used in 1935 in Lviv by team of doctors and scientists led by Professor Mariana Franco and his co-author Professor Witold Lipinskiy for the first time. The results of examinations of the heart passed for 500 meters to the Institute of Pathology. Examination of these was performed jointly with Professor Franco.

Professor Nikolai Mikhailovich Amosov is the founder of Ukrainian Cardiac Surgery. Some researches were carried out in biological and social cybernetics, expert systems.

Since 2000, the Telemedicine in Ukraine is developing very quickly. It is impossible to cover all projects, networks, events that occur in our country over the past few years and associated with the introduction and development of telemedicine and eHealth.

Two international projects on prenatal medicine deserve special attention, some telemedicine networks were built in several regions in Ukraine, thanks to these projects.

The first project is Ukrainian-American Program of Birth Defects Development.

The second project is Swiss-Ukrainian program "Health of Mother and Child," which organized the server work for asynchronous telemedicine consultations on Perinatology. Both networks exhibit a sufficient number of teleconsultations, a clinical efficacy, positive training effect and manage the transportation of patients to specialized health care facilities.

More than 6 years have passed since the telemedical network of "Telecard" was created and launched in Ukraine. It covers 25 regions including Sumy region. Now a multilevel, actually operating digital telemedical system has been built oriented at urgent diagnostic assistance in cardiac pathology at all levels of health care system, organizing effective telemedical interaction and, as a result, saving thousands of lives. With the system "Telecard" more than 130 thousands of telemedical consultations were held. This gave the possibility to reduce mortality rate from myocardial infarction and other cardiac pathologies in some regions of Ukraine. Dozens of thousands of telemedical consultations were namely held between feldsher's stations, ambulatories and highly specialized cardiac centers.

Telemedicine is indispensable in such fields of medicine as pediatrics, physiology, dermatology. Physicians have the possibility to give and get consultations, discuss diagnosis, transmit the results of investigations, perform model operations for surgeons in regional institutions and students as well, take part in the videoconferences.

Practical, scientific and methodical experience accumulated in Ukraine allowed to form a basis for the rational and efficient use of telemedicine and e-management as a valid tool of public administration of health service.